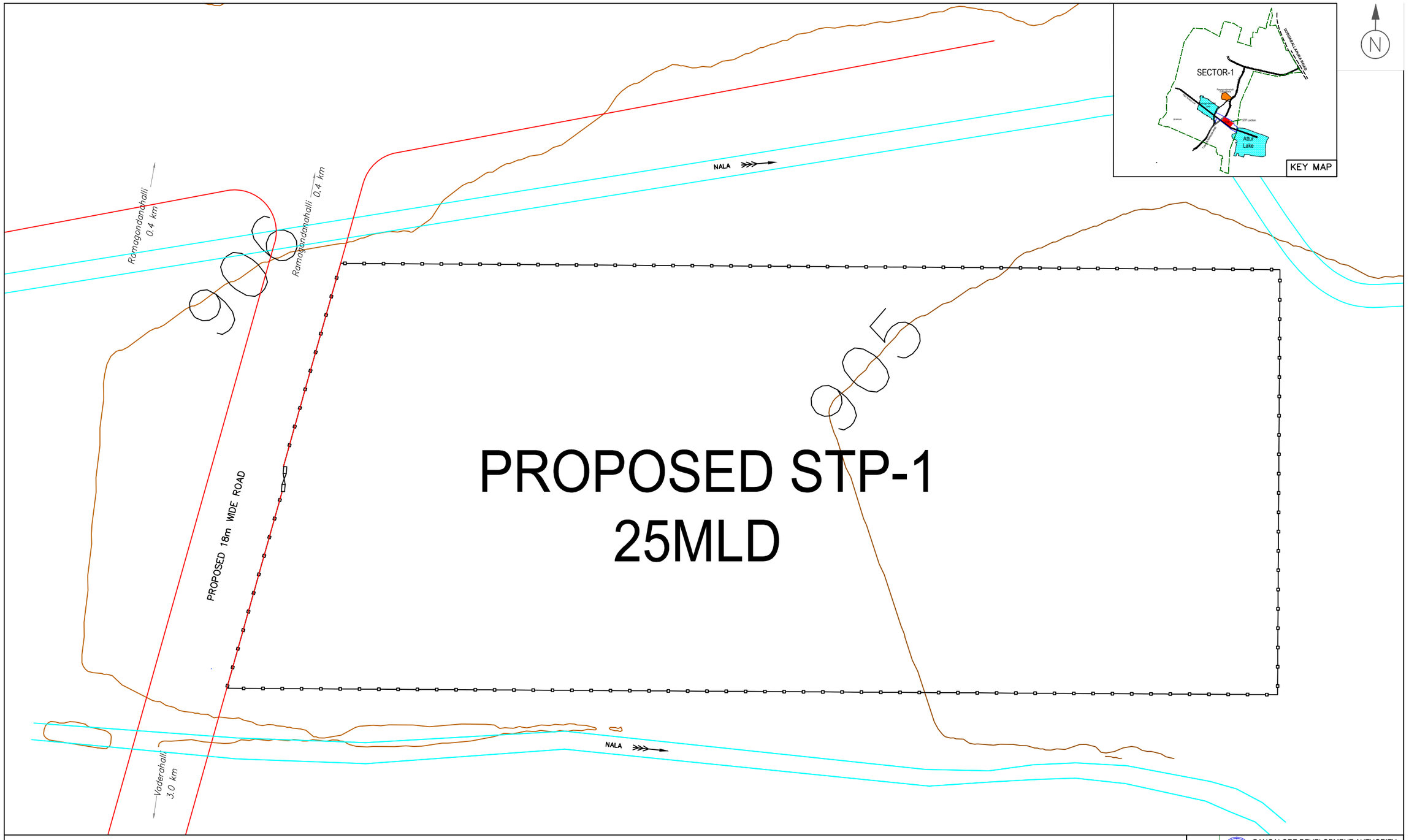
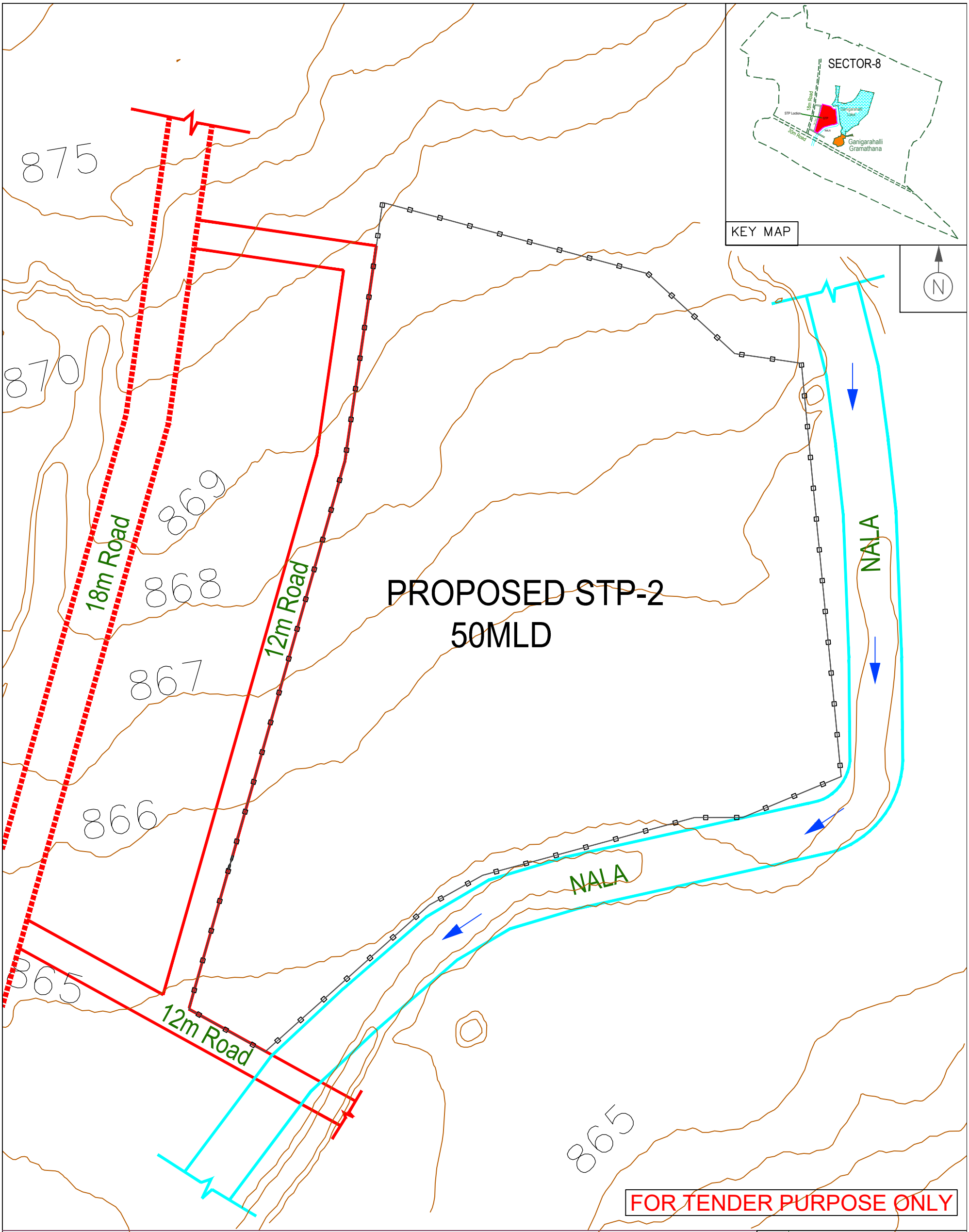


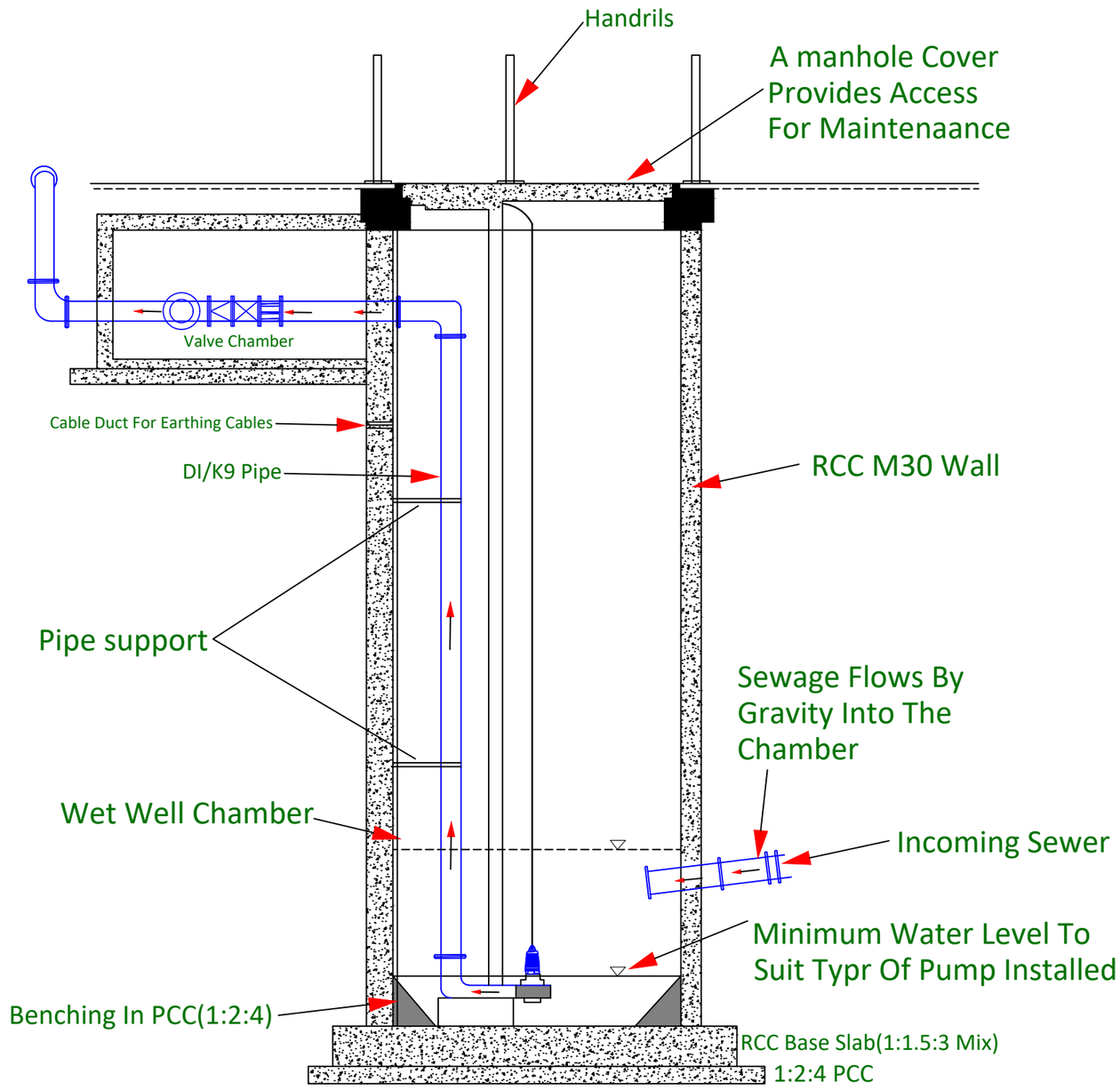
PROPOSED STP-1
25MLD

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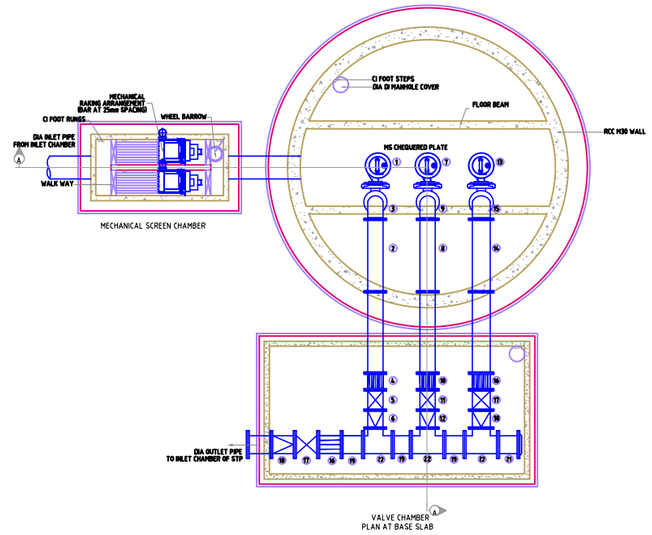
CLIENT	BANGALORE DEVELOPMENT AUTHORITY Kumara Park West, T.Chowdaiah Road, Bengaluru-560 020, India. Phone - 080 -23442273 / 2344227
PROJECT	FORMATION OF Dr. K. SHIVARAMA KARANTHA LAYOUT, BENGALURU
TITLE	PROPOSED SEWAGE TREATMENT PLANT 25 MLD SEWAGE TREATMENT PLANT LAYOUT PLAN TOPOGRAPHICAL SURVEY MAP
PROJECT CONSULTANT	SECON BENGALURU - 66
SHEET No. 1 OF 1	S C A L E AS SHOWN
DRAWING No.	SECON/BDA/DSKL/STP/LP/02



CLIENT	BANGALORE DEVELOPMENT AUTHORITY Kumara Park West, T.Chowdaiah Road, Bengaluru-560 020, India. Phone - 080 -23442273 / 2344227
PROJECT	FORMATION OF Dr. K. SHIVARAMA KARANTHA LAYOUT, BENGALURU
TITLE	PROPOSED SEWAGE TREATMENT PLANT 50 MLD SEWAGE TREATMENT PLANT LAYOUT PLAN TOPOGRAPHICAL SURVEY MAP
PROJECT CONSULTANT	SECON BENGALURU - 66
SHEET No. 1 OF 1	S C A L E AS SHOWN
DRAWING No.	SECON/BDA/DSKL/STP/LP/02



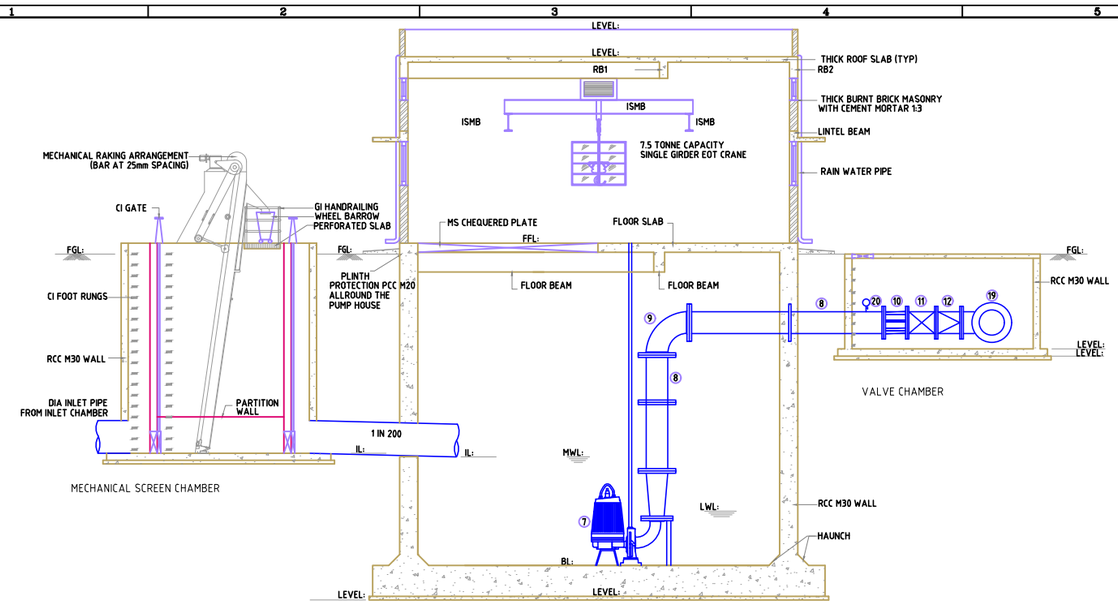
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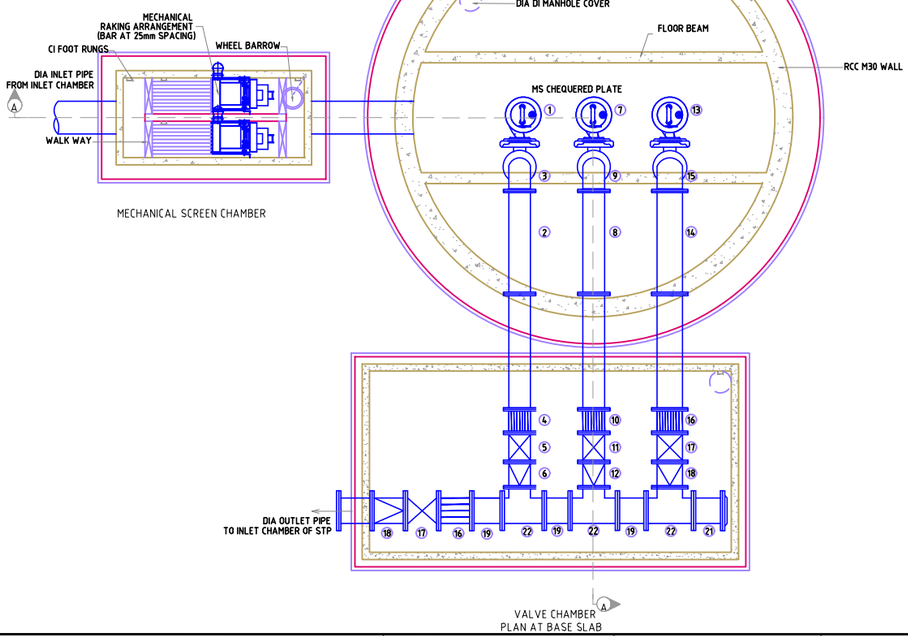


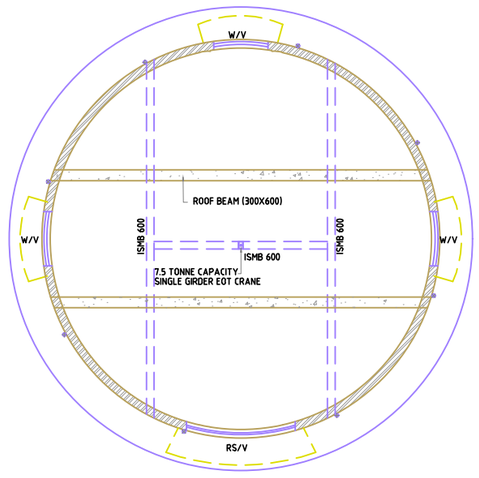
Plan

LIFT STATION No	Estimated Hour flow(MLD)	Peak Flow (MLD)	GL (m)	Invert (m)	Nos of Non Clgs Submersibla Pump
1	2.22	5.54	879.82	877.70	2W+1S
2	2.02	5.06	868.53	864.05	2W+1S
3	0.22	0.54	878.07	870.30	2W+1S
4	0.26	0.65	861.04	856.57	2W+1S
5	0.22	0.56	867.20	865.04	2W+1S
6	1.66	4.15	910.90	907.58	2W+1S
7	0.37	0.92	921.67	919.66	2W+1S
8	4.55	11.38	911.67	908.34	2W+1S

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PROJECT	FORMATION OF Dr. K. SHIVARAMA KARANTHA LAYOUT, BENGALURU
TITLE	MACHINE HOLE PUMP (LIFT STATION)
PROJECT CONSULTANT	SECON BENGALURU - 66
SHEET No. 1 OF 1	S C A L E AS SHOWN
DRAWING No.	SECON/BDA/DSKL/STP/MHP/00







SCHEDULE OF DOORS

SCHEDULE	STRUCTURAL OPENING (WxH)	VIEW	REMARK
RS	3000 X 2800	3000 / 2800	- PROVIDING & FIXING GI ROLLING SHUTTERS 80X1.25mm THICK TOP COVER - PROVIDING & FIXING BALL BEARING - PROVIDING MECHANICAL DEVICE CHAIN & CRANK OPERATION FOR OPERATING ROLLING SHUTTERS

SCHEDULE OF WINDOWS

SCHEDULE	STRUCTURAL OPENING (W x H)	VIEW	REMARK
W	1500 X 1200	1500 / 1200	SHUTTERS - 4-NO PANE OF GLAZED SHUTTERS FOR EACH FRAME - MS ANGLE WITH NECESSARY JOINERY ARRANGEMENT
V	1000 X 600	1000 / 600	-FIXED VENTILATOR -AIR OUTLET LOUVER - MS ANGLE WITH NECESSARY JOINERY ARRANGEMENT - GLAZED SHUTTERS ARE USED

SCHEDULE OF INTERNAL FINISHING

S.No	DESCRIPTION	FLOORING	INTERNAL WALLS	EXTERNAL WALLS	CEILING
1	PANEL ROOM	CC 1:2:4	PLASTIC EMULSION PAINT	WATER PROOF CEMENT PAINT	PLASTIC EMULSION PAINT

DETAILS OF PUMPING LAYOUT - ITEMS

SL.No	DESCRIPTION	QTY
1	Non clog submersible pump	2W+1S
2	Pipe of length	m
3	Flanged bend	1
4	CI Expansion Bellow	1
5	CI Knife Gate valve	1
6	CI Non return valve	1
7	Non clog submersible pump	1W
8	Pipe of length	m
9	Flanged bend	1
10	CI Expansion Bellow	1
11	CI Knife Gate valve	1
12	CI Non return valve	1
13	Non clog submersible pump	1W
14	Pipe of length	m
15	Flanged bend	1
16	CI Expansion Bellow	2
17	CI Knife Gate valve	2
18	CI Non return valve	2
19	Pipe of length	m
20	Pressure gauge with diaphragm seal	3
21	DI Blank Flange	1
22	DI All flanged Tee	3

* DIMENSION & DIAMETER TO BE DESIGEND BY EPC CONTRACTOR

SPS No	Estimated Hour flow (MLD)	Peak Flow (MLD)	HFL (m)	GL (m)	Invert Level (m)	No's of Pump
1	1.87	4.66	912.17	871.82	869.36	2W+1S
2	1.08	2.70	911.94	886.48	865.36	2W+1S
3	0.14	0.35	908.35	886.86	882.72	2W+1S
4	0.33	0.82	870.00	900.52	894.57	2W+1S
5	0.82	2.05	965.94	905.46	900.4	2W+1S
6	1.05	2.63	914.10	916.00	914.1	2W+1S

FOR TENDER PURPOSE ONLY

NOTES :

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SPECIFIED OTHERWISE.
2. FOLLOW WRITTEN DIMENSIONS ONLY.
3. GRADE OF CONCRETE USED FOR WET WELL SHALL BE M30-20mm NOMINAL SIZE FOR WALL, FOOTING & FLOOR SLAB, M25-20mm NOMINAL SIZE FOR ROOF SLAB.
4. GRADE OF CONCRETE USED FOR SCREEN CHAMBER & VALVE CHAMBER SHALL BE M30-20mm NOMINAL SIZE.
5. GRADE OF PCC SHALL BE M10 (1:3:6).
6. REINFORCEMENT STEEL SHALL COMPLY TO IS 1786 WITH GRADE DESIGNATION Fe 550.
7. ALL THE MATERIALS USED SHALL CONFIRM TO IS STANDARDS.
8. THE ORIENTATION OF THE WET WELL SHALL BE CONFIRMED DURING EXCECUTION AND VETTED BY THE COMPITENT ENGINEER.
9. SAFE BEARING CAPACITY CONSIDERED FOR DESIGN IS 20 t/Sqm. THIS SHALL BE VERIFIED DURING THE TIME OF EXECUTION.
10. THE DIMENSION OF THE WET WELL ARE ARRIVED ON THE BASIS OF HYDRALIC COMPUTATION.
11. SCREENING ARRANGEMENT WITH CONVEYOR SYSTEM OF REQUIRED SIZE.

ABBREVIATIONS :

- BL : BED LEVEL
- CI : CAST IRON
- DI : DUCTILE IRON
- FFL : FINISHED FLOOR LEVEL
- FGL : FINISHED GROUND LEVEL
- GI : GALVANIZED IRON
- GV : GATE VALVE
- IL : INVERT LEVEL
- ISMB : INDIAN STANDARD MEDIUM WEIGHT BEAM
- LWL : LOW WATER LEVEL
- MS : MILD STEEL
- MWL : MAXIMUM WATER LEVEL
- PCC : PLAIN CEMENT CONCRETE
- PVC : POLY VINYL CHLORIDE
- RCC : REINFORCED CEMENT CONCRETE
- RB : ROOF BEAM

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PROJECT	FORMATION OF Dr. K. SHIVARAMA KARANTHA LAYOUT, BENGALURU
TITLE	PROPOSED SEWAGE TREATMENT PLANT SEWAGE PUMPING STATION GENERAL ARRANGEMENT
PROJECT CONSULTANT	SECON BENGALURU - 66
SHEET No. 1 OF 1	S C A L E AS SHOWN
DRAWING No.	SECON/BDA/DSKL/STP/SPS/06